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(54) MAGNETIC MATERIAL OF LOW-LOSS OXIDE

(57)Abstract:

PURPOSE: To obtain a magnetic material which assures low iron loss even in use at a frequency higher than 200kHz by adding the specified amount of Li_2CO_3 to a material including the specified amounts of MnO , ZnO , Fe_2O_3 , CaO and SiO_2 .

CONSTITUTION: Li_2CO_3 of 0.01W0.04wt% is added to the low-loss oxide magnetic material including, as the main elements, MnO of 30W37mol%, ZnO of 10W15mol% and Fe_2O_3 (remainder) and also including, as the sub-material, CaO of 0.04W0.10wt% and SiO_2 of 0.015W0.100wt%. Thereby, a low-loss oxide magnetic material which sufficiently satisfies various characteristics required for switching power supply material and realizes power loss lower than that of the existing material at a frequency higher than 200kHz can be provided. This material is just suited for magnetic core material for high frequency and realizes reduction in size and light weight of transformer.

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